

OPERATING SYSTEM - CS23431

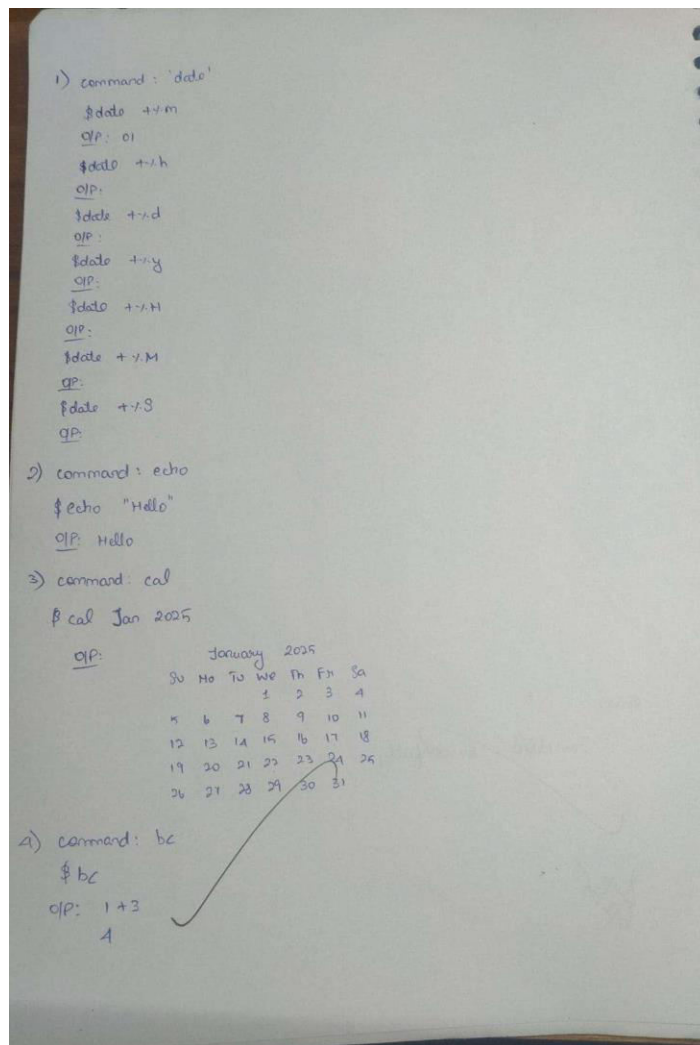
EXP 1(B)

BASIC LINUX COMMANDS

NAME: KAAVIYA R

ROLL NO: 230701504

GENERAL PURPOSE COMMANDS:



6) command: who

```
$ who
  PID: root      tty      2025-02-01 13:56 (tty3)
      csela3     pts/10   2025-02-01 15:39 (172.16.52.144)
```

6) command: who am i

```
$ who am i
  PID: csela3    pts/10   2025-02-01 15:39 (172.16.52.144)
```

7) command: id

```
uid=1146(csela3) gid=1146(csela3) groups=1146(csela3)
context=unconfined_u:unconfined_t:unconfined_t:10-70:10:1003
```

8) command: tty

```
/dev/pts/10
```

9) command: clear

clears the screen

10) command: man man

gives complete access to unix commands.

11) command: ps

```
PID  TTY      TIME  CMD
3083  pts/10   00:00  bash
5642  pts/10   00:00  ps
```

12) command: uname

```
OP: linux
```

```
$ uname -m
```

```
OP: x86_64
```

```
$ uname -n
```

```
OP: fedora
```

```
$ uname -r
```

```
OP: 6.3.15-100.fc36.x86_64
```

```
$ uname -s
```

```
OP: linux
```

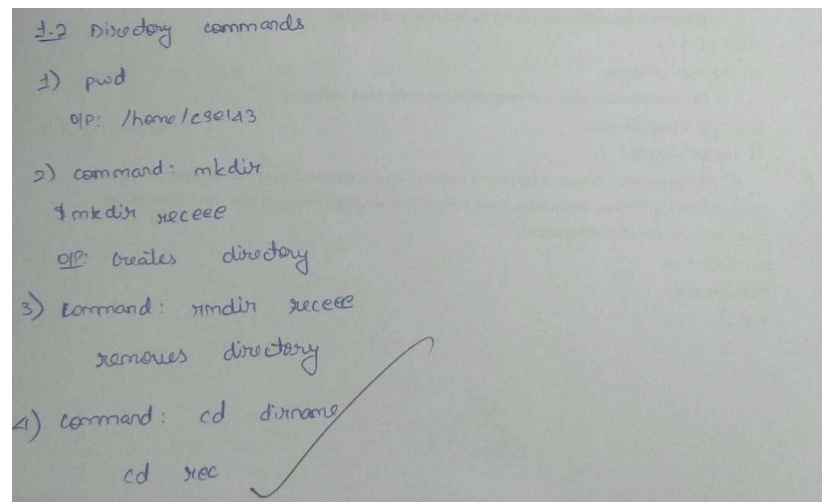
```
$ uname -v
```

```
OP: #1 SMP PREEMPT_DYNAMIC Thu May 11 16:51:53 UTC 2023
```

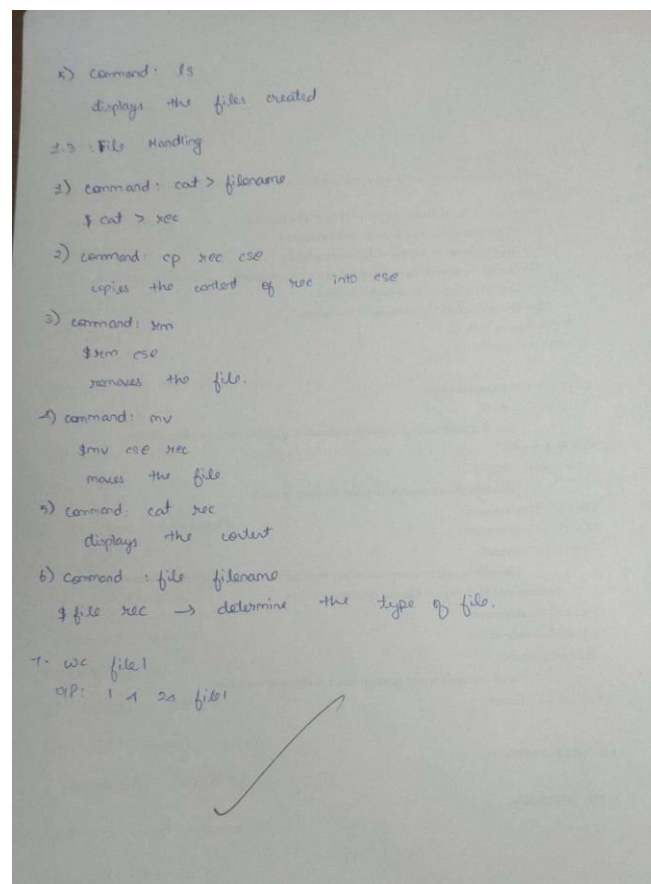
```
$ uname -a
```

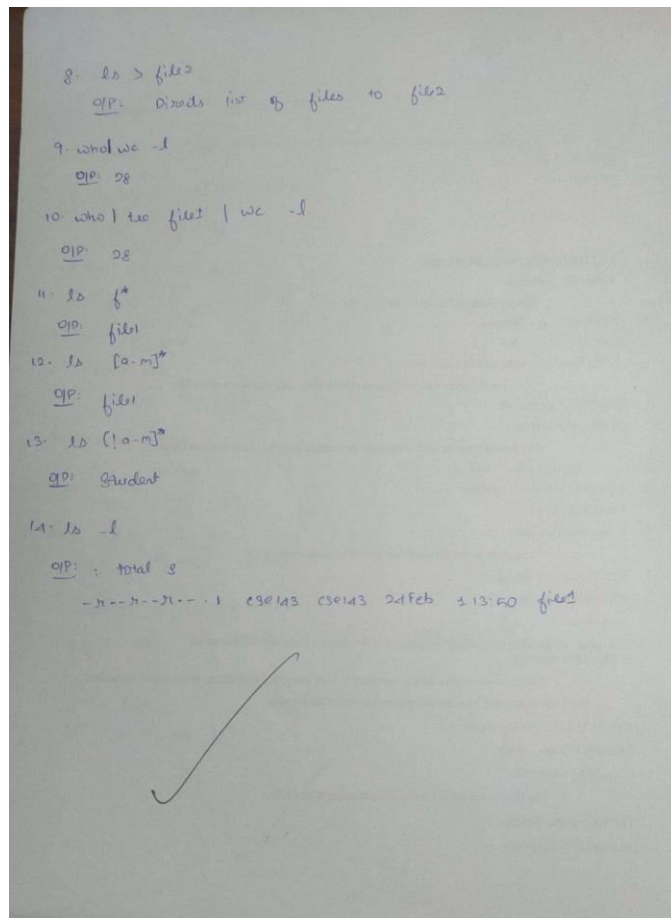
```
OP: linux fedora 6.3.15-100.fc36.x86_64 #1 SMP PREEMPT_DYNAMIC
Thu May 16:51:53 UTC 2023 x86_64 x86_64 x86_64 GNU/Linux
```

DIRECTORY COMMANDS:

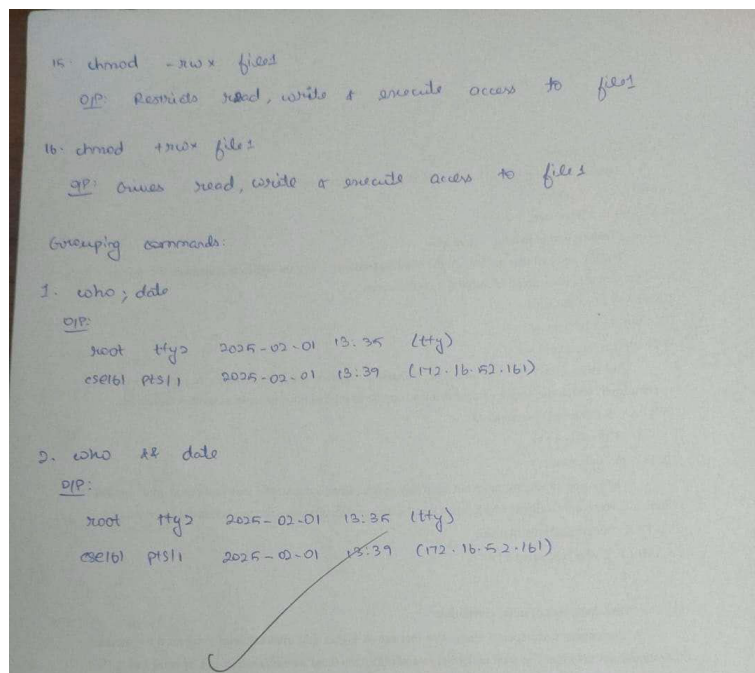


FILE HANDLING COMMANDS:

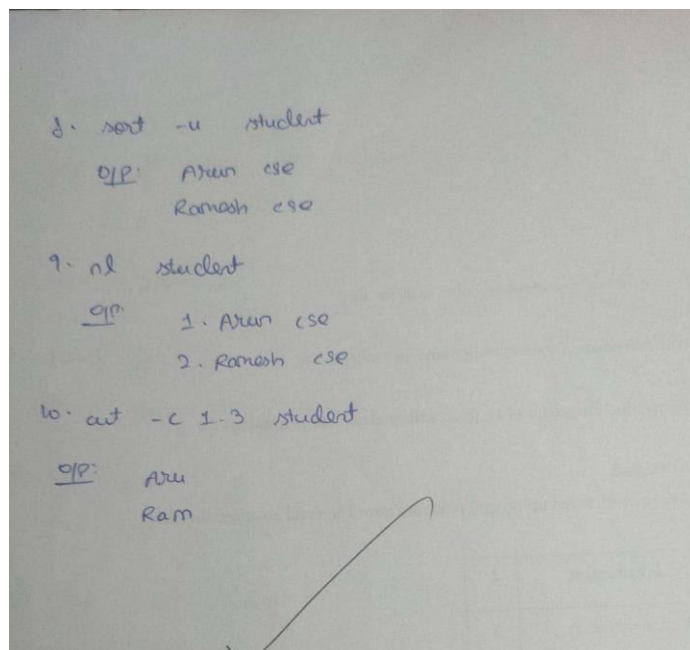
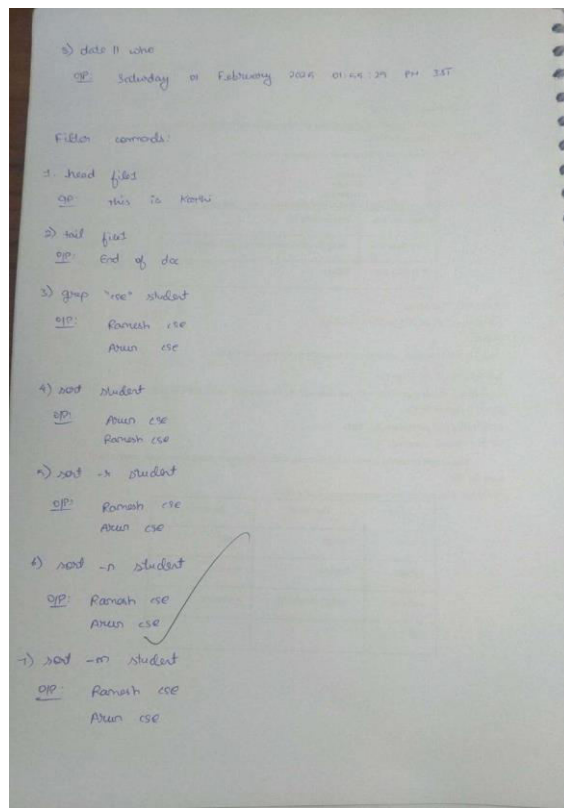




GROUPING COMMANDS:



FILTER COMMANDS:



OTHER COMMANDS:

3. free command:

i) free

OP:	total	used	free	shared	buff/cache
Mem:	16092656	1702248	10664764	277644	3541644
Swap:	838804	0	838804		

ii) free -h

OP:	total	used	free	shared	buff/cache
Mem:	15 Gi	1.6 Gi	10 Gi	270 Mi	3.4 Gi
Swap:	8.0 Gi	0 B	8.0 Gi		

2. top

OP:	PID	USER	PR	NI	VIRT	RES	SHR	%CPU	%MEM	TIME	COMMAND
	1	root	20	0	0	0	0	0.0	0.1	0:0:0.1	top

1) vmstat

OP:	procs	memory	swap	io	system	cpu
	r b	swpd free buff cache si so	bi bo	in as	us sy id wa	
	1 0	0 108528 608 36360	0 0	17 23	12 15 0 0 99 1	

5) df

OP:	Filesystem	1K-blocks	Used	Available	Use %	Mounted on
	devtmpfs	4096	0	4096	0%	/dev
	/dev/sda1	98304	29302	29002	31%	/boot/efi

6) ping

ping 172.16.1.1

OP: PING 172.16.1.1 (172.16.1.1) 56(84) bytes of data:

64 bytes from 172.16.1.1: icmp_seq=1 ttl=64 time=0.328 ms

7) ifconfig

OP: eth0: flags=4163<UP, BROADCAST, RUNNING, MULTICAST> mtu 1500

inet 172.16.53.115 netmask 255.255.252.0 broadcast 172.16.53.255

inet6 fe80::9276:1033:a8c8:cc5d prefixlen 64 scopeid 0x20<link>

8) traceroute

traceroute www.rajalakshmi.org

OP: traceroute to www.rajalakshmi.org (14.99.10.232), 30 hops max,

60 byte packets

1. rajalakshmi.org(14.99.10.232) 0.235 ms 0.199 ms 0.193 ms

2. * * rajalakshmi.org(14.99.10.232) 0.681 ms